

S/078/63/008/004/003/013

Density, viscosity, and surface tension of ...

Figure 3: Improved gas setup for the determination of the surface tension: 1 - gas cylinder; 2 - electric furnace; 3 - tube of the apparatus for liquid and gas filling; 4, 8, 10 - connecting pipe; 15 - container for tube calibration; 6 - calibrated tube; 7 - intermediate cylinder; 9 - pressure-gauge cylinder; 11 - cushioning cylinder; 12 - trap.

Card 5/5

EVANOV-EMIN, B.N.; NISEL'SON, L.A.; SOKOLOVA, T.D.

Reactions of scandium chloride with ethylenediamine. Zhur.

neorg. khim. 8 no.6:1381-1383 Je '63. (MIRA 16:6)

(Scandium chloride)
(Ethylenediamine)

ACCESSION NR: AP4036963

s/0078/64/009/005/1049/1052

AUTHOR: Nisel'son, L. A.; Pustil'nik, A. I.; Sokolova, T. D.

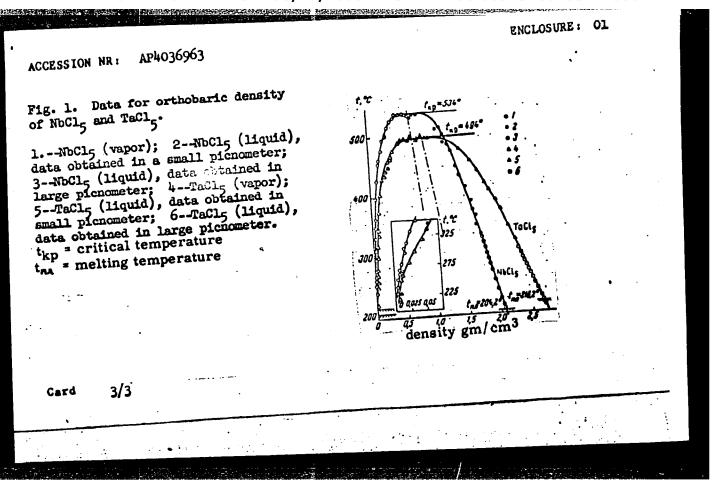
TITLE: Orthobaric density and critical parameters of niobium and tantalum pentachlorides.

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 5, 1964, 1049-1052

TOPIC TAGS: niobium pentachloride, tantalum pentachloride, orthobaric density, critical parameter, critical density, critical pressure, critical temperature, niobium tantalum analysis, density temperature relationship, Berthelot equation, liquid vapor phase equilibrium, crystal liquid phase equilibrium

ABSTRACT: The orthobaric density of NbCl<sub>5</sub> and TaCl<sub>5</sub> throughout the liquid state and in the vapor state, and their critical parameters were determined (fig. 1). The densities of the liquid TaCl<sub>5</sub> and NbCl<sub>5</sub> and of their mixtures were measured precisely from their melting temperatures (216.2 and 204.2 C, respectively) to 300-320 C. The critical parameters for NbCl<sub>5</sub> were: critical temperature 534 C, density crit 0.68 gm/cm<sup>3</sup>, pressure p<sub>crit</sub> 46 atmospheres; for TaCl<sub>5</sub> were: 494 C, 0.89 gm/cm<sup>3</sup> and 43 atmospheres. Since the liquid-vapor phase and the crystal-

Card 1/3



escential debias for formation encountries.

NISEL'SON, L.A.; SOKOLOVA, T.D.

Orthoparic densities and the critical parameters of the niobium and tantalum pentabromides. Zhur. neorg. khim. 9 no.9:2066-2067 (MIRA 17:11)

6. Gosudarstvennyy nauchno-issledovateliskiy i proyektnyy institut redkometallicheskoy promyshlennosti.

NISELISON, L.A.; PUSTILINIK, A.I.; SOKOLOVA, T.D.
Orthobaric densities and critical parameters of niobium

and tantalum pentachlorides. Thur. neorg. khim. 9 no.5: 1049-1052 My '64. (MIRA 17:9)

L 29547-65 EWT(m)

ACCESSION NR: AP5002796

\$/0078/65/010/001/0018/0021

AUTHOR: Nisel'son, L. A.; Sokolova, T. D.

TITIE: Orthobaric density, critical parameters, and viscosity of MoCl5 and WCl6

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 1, 1965, 18-21

TOPIC TAGS: molybdenum pentachloride, tungsten hexachloride, orthobaric density, density, viscosity, melting point, pressure, critical temperature

ABSTRACT: This study of MoCl and WCl was carried out in order to determine the thermophysical properties of the compounds in the liquid and vaporous state, inasmuch as this knowledge is necessary for developing processes for the manufacture, separation, and reduction of higher molybdenum and tungsten chlorides. The purest fractions obtained after chlorination and purification of the molybdenum and tungsten chlorides were used for the investigation. The orthobaric density was determined for the entire temperature range of the liquid state. The density at temperatures ranging from the melting point to 400-4400 was obtained with the greatest accuracy by the method of least squares and is represented by formulas. The critical parameters were determined from orthobaric density data. The viscosity was deter-

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L 29547-65

ACCESSION NR: AP5002796

mined at temperatures ranging from the melting point to 310-4000 and the results are described by formulas. More exact melting points of pure MoCl and WCl were determined to be at 194.4C and 283C, respectively. Experimental results are given in tables 1, 2, and 3 of the Enclosure. The data given in this study are new and do not appear in the technical literature. Orig. art. has: 2 figures and 3 tables.

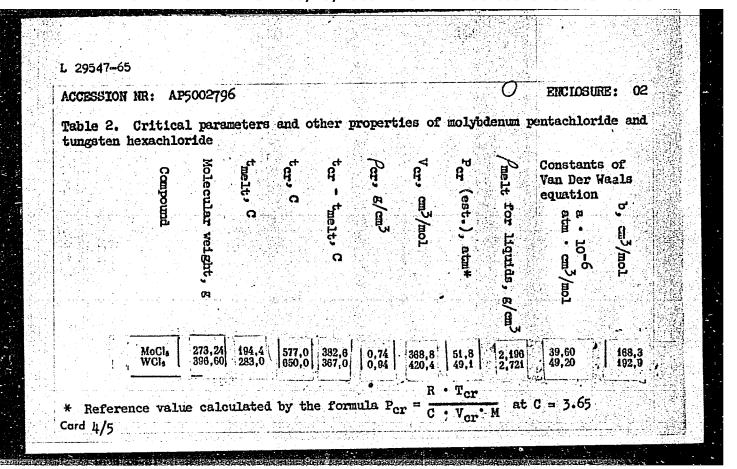
ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyshlennosti "GIREDMET," Moscow (GIREDMET State Scientific Research and Planning Institute of the Rare Metal Industry)

SUBMITTED: 03Aug63 ENCL: 03 SUB CODE: IC, GC

NO REF SOV: 006 OTHER: 000

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652120002-2

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	t, C 277.0 282.0 317.0 351.3 357.0 388.0 396.0 408.6 459.0 474.5 478.0 488.4 507.0 510.5 512.0 553.0 562.0 567.5 571.0 5718.0	P,g/cm 0,00498 0,00516 0,012 0,0188 0,0208 0,0396 0,0414 0,0364 0,1067 0,134 0,164 0,166 0,152 0,303 0,35 0,389 0,316 0,389 0,614 0,59 0,62 0,507	t, C 204,0° 222,5° 241,0° 261,5° 282,5° 303,0° 321,0° 353,0° 331,7° 397,0° 414,0° 457,5° 471,5° 574,0°	9,8/cm 2,1799 2,1358 2,0951 2,0506 2,0101 1,9887 1,9354 1,8651 1,8631 1,7687 1,724 1,700 1,470 0,774	500,00 443,00 446,00 446,00 446,00 450,00 555,00 557,00 562,00 622,00 622,00 622,00 624,40 645,00 648,00 648,00 648,00 650,00	0,00444 0,0103 0,0108 0,0155 0,0182 0,0212 0,0388 0,0356 0,0598 0,0793 0,0969 0,157 0,177 0,179 0,215 0,269 0,430 0,425 0,539 0,376 0,590 0,722 0,784 0,716	281,5° 321,0° 353,0° 382,5° 410,0° 436,2° 478,5°° 526,5°° 565,5°° 588,5°° 589,5°° 650,0°°	2,7268 2,6338 2,5811 2,5071 2,4401 2,3749 2,280 2,240 2,080 1,910 1,780 1,780 1,694 1,020 0,966 0,988	Table 1. Density of liquid molyb- denum pentachloride and tungsten hexa- chloride and of their saturated vapors Weasurement results of high accuracy ob- tained with large pycnometer. Hyeasurement re- sults obtained with a small pycnometer.	



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Table 3	• Vis	cosity	of liqu	ld moly	/bdenum	pentachle	oride and	l tungs	ten hexachlo	ride
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		MoC (, *C	n, cen- Lipotae	ι, •°0	vcı. 7, cen- tipoise	ι, •σ	1, cen-	r, •0	tipoise	
		210,5 221,0 230,5 240,5 252,5 264,0	0,856 0,790 0,732 0,687 0,621 0,599	285,5 290,5 308,7 309,8 320,5 333,0	1,193 1,161 1,042 1,051 0,972 0,908	276,0 289,5 311,5	0,564 0,525 0,479	342,3 351,5 370,7 385,7 400,5	0,882 0,814 0,742 0,693 0,650	

L 43750-65 EWT(m)/EWP(b)/EWP(t) IJP(c) JD S/0078/65/010/003/0593/0595 / 6 ACCESSION NR: AP5008480 S/0078/65/010/003/0593/0595 / 6 AUTHOR: Nisel'son, L. A.; Mogucheva, V. V.; Sokolova, T. D.
ACCESSION NR: AP5008480  AUTHOR: Nisel'son, L. A.; Mogucheva, V. V.; Sokolova, T. D.
7
TIME: Critical parameters of phosphorus, arsenic, and antimony trichlorides
SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 3, 1965, 592-595
TOPIC TAGS: antimony trichloride, arsenic trichloride, phosphorus trichloride, critical temperature, critical density, orthobaric density
ABSTRACT: This study has been carried out because the available data on the subject are disconnected and incomplete. Orthobaric density curves for SbCl <sub>3</sub> , AsCl <sub>3</sub> , ject are plotted, and the critical temperatures and densities of the chlorides and PCl <sub>3</sub> are plotted, and the critical temperatures and densities of the chlorides are determined from the density data. The experimental data are processed by the method of least squares and presented in the form of interpolated equations. Densities of the SbCl <sub>2</sub> liquid from melting point to 3200 and of the AsCl <sub>3</sub> and PCl <sub>3</sub> sities of the SbCl <sub>2</sub> liquid from melting point to 3200 and of the results are given liquids from 0 to 120-1400 are measured with great accuracy. The results are as a rule, in
in Table 1 of the Enclosure. The experimental density leading to the critical very good agreement with available data in the technical literature. The critical very good agreement with available data, temperatures for SbCl3 and PCl3 are also in good agreement with the available data,
Cord 1/4

. 43750-65 ACCESSION NR: AP5008	<b>480</b>	z comulas, 2 figures, and 2	
cables.		3 formulas, 2 figures, and 2 21'skiy i proyektnyy institut a and Planning Scientific Resear	
ASSOCIATION: Gosudan redkometallicheskoy n Institute of the Rar	rstvennyy nauchno-1881euova promyshlennosti (State Design e Metals Industry)	and Planning Scientific Resear	
AUBMITTED: 010ct63	ENCL: 02	SUB CODE.	
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	Vapor Temp Density, era- ture,C	Liquid Tempera-Densi-Tempera-D	mp- Densi-Temp- I		lemo Densi-	
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	248,2 0,0103 259,3 0,0140 288,7 0,0225 296,3 0,0242 309,0 0,0326	123,1 •   2,2663   153,5 •   2,4975   182,7 •   2,4281   207,7 •   2,3703   239,3 •   2,2949	166,5 0,0144 8,0°2 195,9 0,0238 32,5°2 218,3 0,0352 34,8°2 243,0 0,0503 73,0°2 255,4 0,0603 75,5°2 275,5 0,0833 78,0°2 296,3 0,115 84,5°2 303,3 0,122 102,7°1 332,3 0,189 126,8°1	0413 146.1 0.0260 0356 159.3 0.0337 0215 161.0 0.0350 19743 193.6 0.0568	40,5°1,5339 54,6°1,5091 66,7°1,4853 79,3°1,4853	
	316,7 0,0327 311,5 0,0301		332,3 0,189  126,8° 1 353,2  0,272  128,5° 1	,9224 195,7 0,062 1,9185 236,1 0,121	102.5 1.4134	

(Table 1 cont.)	10,0354   322.5				0	
338,7 344,5 353,9 402,7 415,5 425,6 430,9 444,5 459,0 471,3 512,9 512,9 515,7 519,3 521,5	0,0354 322,5 0,0419 346,9 0,0408 374,7 0,057 418,0 0,121 454,5 0,141 459,7 0,154 521,0 0,2095 522,8 0,2095 522,8 0,2095 0,236 0,444 0,441 0,555 0,705 0,792 0,819 0,858	2,08   378,6   0,412   2,04   378,5   0,484   1,94   381,2   0,560   1,70   1,65   1,06   1,10   1,1	146, 7° 1, 8771 252, 7 148, 8° 1, 8710 266, 0 152, 5 1, 84 271, 8 170, 0 1, 83 278, 3 186, 2 1, 79 287, 2 204, 8 1, 73 290, 9 223, 0 1, 69 290, 0 237, 5 1, 65 291, 2 251, 5 1, 61 291, 2 264, 0 1, 57 296, 8 1, 46 319, 5 1, 38 337, 5 1, 29 348, 0 1, 23 348, 0 1, 23 348, 0 1, 23 353, 0 1, 29 381, 2 0, 30 382, 5 0, 88	0,156   113,9°   1,3896 0,203   140,0   1,34 0,215   160,0   1,29 0,256   179,0   1,24 0,827   194,5   1,20 0,401   206,2   1,16 0,457   218,5   1,13 0,457   226,2   1,10 234,3   1,07 241,0   1,06 247,0   1,02 251,5   1,00 254,0   0,99 290,0   0,55 289,5   0,60		
* The accurate of	lensity measur	ements were of	btained in a pyc	enometer of lar	ge volume.	

L 59240-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5015012

UR/0078/65/010/006/1297/1299 546.284'131 + 546.27'131

13

AUTHOR: Nisel'son, L.A.; Pugachevich, P.P.; Sokolova, T.D.; Bederdinov, R.A.

TITLE: Density, viscosity, and surface tension of silicon tetrachloride and trichloro-silane

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 6, 1965, 1297-1299

TOPIC TAGS: silicon tetrachloride, trichlorosilane, chloride density, chloride viscosity, chloride surface tension

ABSTRACT: The article continues a series of studies on the thermophysical properties of halides. Silicon tetrachloride and trichlorosilane are important source materials for the preparation of high-purity silicon. Data on their properties as reported in the literature are contradictory. In this report, the authors present the results of measurements of the density, viscosity, and surface tension of SiCl4 and SiHCl3 between zero C and a temperature slightly above their normal boiling points. The chlorides studied were thoroughly purified by chemical means and by distillation. Density was measured in quartz pycnometers, viscosity in a capillary viscometer, and surface tension by the method of maximum pressure in a bubble. All the measurements were carried out in sealed devices in order

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ACCESSION NR: AP5015012	3		
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to exclude the adverse effec	t of moisture. The data of	obtained are tabulated a	nd illustrated
with graphs; they were also	treated by the method of	least squares, and are	expressed
in the form of exponential in	nerpotation equations. O	rig. art. nas: 2 figures	and o tables.
ASSOCIATION: None			
SUBMITTED: 03Aug63	ENCL: 00	SUB CODE: IC	
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ACCESSION NR: AP5018241	/EWP(t) Ps-4 IJP(c) JD/JG
	UR/0078/65/010/007/1516/1519 546.623'131+546.681.3'131
AUTHOR: Nisel'son, L. A.; So	kolova, T. D.
TITLE: Density, viscosity, a	nd surface tension of aluminum and gallium trichloride
SOURCE: Zhurnal neorganiches	koy khimii, v. 10, no. 7, 1965, 1516-1519
ion TAGS: aluminum chloride,	gallium chloride, density, viscosity, surface ten-
$0.256.0C$ , where $\Delta t = t - 192$ . $0.0546-1$ . $0.0546-1$ . $0.0540-1$ . $0.0540-1$ . $0.0540-1$ . $0.0540-1$ .	ements of density yielded the following equations: $2 \times 10^{-3} \Delta t - 2.36 \times 10^{-6} \Delta t^2 \text{ g/cm}^3 \text{ from t}_{\text{fus}} = 192.5$ 5C (mean square error $\Delta \rho_{\text{sq}} = 0.0006$ ), and 985 x $10^{-3} \Delta t - 1.44 \times 10^{-6} \Delta t^2 \text{ g/cm}^3 \text{ from t}_{\text{fus}} = 78.0C$ (mean square error $\Delta \rho_{\text{sq}} = 0.0013$ ). urves, the critical temperatures (t <sub>cr</sub> ) were found; so determined. From viscometric data, the following
o 256.0C, where $\Delta t = t - 192$ . $Ga_2Cl_6 = 2.0546-1$ . B.O to 240.0C, where $\Delta t = t$	50 (mean square error $\Delta P_{eg} = 0.0006$ ) and fus = 192.5

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ACCESSION NR: AP5018241		<ul><li>(*) 2.歳</li><li>(*) 2.歳</li><li>(*) 3.5</li><li>(*) 3.5</li></ul>
$\eta_{A1_2C1_6} = 3.602$ $t_{fus} = 192.5 \text{ to } 276.0C, \text{ where } t_{fus} = 192.5 \text{ to } 276.0C$	$2 \times 10^{-1} - 2.899 \times 10^{-3} \Delta t + 1.232 \times 10^{-5} \Delta t^2$ poise from here $\Delta t = t - 192.50$ (means square error $\Delta \eta_{sq} = 0.002$ ),	) V
and	$58 - 2.22 \times 10^{-2} \Lambda t + 1.47 \times 10^{-4} \Lambda t^2 - 3.74 \times 10^{-7}$ ) to 247.0C, where $\Lambda t = 7 - 78.0$ (mean square error obtained for the surface tension can be represented by	
Δt = t - 192.5C (mean squ	-7.33 x $10^{-2}$ $\Delta t$ dyne/cm from $t_{fus}$ = 192.5 to 285C, where are error $AG_{sq}$ = 0.1), and	
$6_{\text{Ga}_2\text{Cl}_6} = 25.0$ 78.0 to 300.0C, where $\Delta$ thas: 3 figures, 6 formula	9 - 1.0 x $10^{-1}$ $\Delta t + 8.7 \times 10^{-5}$ $\Delta t^2$ dyne/cm from $t_{\text{fus}} = t - 78.00$ (mean square error $\Delta t_{\text{sq}} = 0.3$ ). Orig. art.	
ASSOCIATION: None		
	ENCL: 00 SUB CODE: IC	1.00

UNKOVSKIY, B.V.; MALINA, Yu.F.; SOKOLOVA, T.D.

Stereochemistry of acetylene synthesis. Part 4: Synthesis and spatial configuration of the geometric isomers of 1,2-dimethyl-4-ethynyl-4-piperidol and their derivatives. Zhur. org. khim. 1 nc.4:699-706 Ap '65. (MIRA 18:11)

l. Moskovskiy institut tonkoy klimicheskoy tekhnologii imeni Lomonosova.

NIGEL SON, L.A.; SOKOLOVA, T.D.

Orthobaric densities, critical parameters and viscosity of MoCl<sub>5</sub> and WCl<sub>6</sub>. Zhur. neorg. khim. 10 no.1:18-21 Ja '65. (MIRA 18:11)

1. Gosudarstvennyy nauchno-issledovateliskiy i proyektnyy institut redkometallicheskoy promyshlennosti "GIREDMET", Moakva. Submitted Aug. 3, 1963.

L 35850-66 EVT(m)/EVT(t)/ETI IJP(c) WW/JD/JG
ACC NR: AP6014898 (N) SOURCE CODE: UR/0076/65/039/012/3025/3032
AUTHOR: Nisel'son, L. A.; Stolyerov, V. I.; Sokolove, T. D.
ORG: Moscow State Scientific and Design Institute for the Rare Metal Industry (Moscovskiy gosudarstvennyy nauchno-issledovatel skiy i proyektnyy institut redkometallicheskoy promyshlennosti)  49
TITLE: Properties of liquid zirconium tetrachloride of source: Zhurnal fizicheskoy khimii, v. 39, no. 12, 1965, 3025-3032
TOPIC TAGS: zirconium compound, chloride, heat of vaporization, Surface.  YENSIAN  ABSTRACT: The zirconium tetrachloride used was the purest fraction, purified by rectification in a metallic packed column. The content of hafnium and other metallic impurities in the chloride was less than a hundredth of a percent. The temperature measurements were calibrated on zinc (m.p. 419.5°C) and were made with a Chromel-Alumel thermocouple using a type R2/1 semiautomatic potentiometer. Determination was first made of the temperature of the triple point; this was done from the cooling curve. Next, measurements were made of the pressure of the saturated vapors. Results are exhibited in tabular form. Measurements of the viscosity were made with a special viscometer (illustrated in the
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rticle). F iven in a t	inally, the suable. Calcula boiling point, on the temper	tions were I	on was measured, made of the crit; pendence of the l g. art. has: 10	rest of	,,,,,
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Zhuze, T. P., and A. S. Zhutba. Specific Volumes and Com- pression Coefficients of the n-Hexano-Ethylane System in the Interval of Fresbure to 150 atm and Temperature of 30-150'C	Zhurba, A. S., and T. P. Zhuze. Comparison of the Ebhylene-n- Heanne, Ethylene-Cycloheanne, and Ethylene-Bensene Systema by the p-w-k-N (pressure-volume-tempersture-molar fraction of ethylene in the mixture) Relations and Phase Equilibrium	Sabirova, G. Y., G. M. Shapovalov, and V. N. Karaseva. Production of an Effective Plotation Agent Based on Oxidized Fetrolatum	Sklyar, V. T., L. M. Samtsova, T. Q. Bokalova, and N. V. Aref'yev. Asphaltene and Tar Components of Some Carpathian Petroleums and Asphalts of Menlite Shales	Sklyar, V. T. A. P. Lizogub, A. P. Mal'nev, and G. A. Puchkov-skuya. Study of Six-Membered Arcoatic and Haphthenic Hydrocathons by Infrared Absorption Spectra	Card 3/5	PERFOLEM NEFATION SEFATION OF Sergiyonko, S. R., Ye. V. Lebedev, and A. A. Mikhnovskaya. On the Structure of High Molecular Hydrocarbons of Petroleum 13	Card 2/5	allphatic offpoilion of alcohols produced by anlective hydrogenation of the CO and By product of synthesis. Other articles describe the exhamide downxing method for illinates of wax distillates, the production of floation agents which the use of oxidized petrolarus, and the investigation of six-memberd are matte and naphthesis hydrocarbons by means of infrared absorption spectra. The remaining articles are on the relations of pressure oblume-temperature-ethylene and on the phase equilibrium in ethylene-hearne, ethylene-cyclohoxane, and ethylene-benzene aystems. Specific volumes and compression coefficients at	COVERAGE: The collection of articles deals with the production and refining of petroleum. Individual articles discuss the affect of bound water on the depletion of petroleum deposite under dissolved gas conditions, the offect of pressure on the viscosity of depastired petroleum, the structure of high-mole-cular petroleum bydrocarbons, the apphaltens and tar occupe-cular petroleum bydrocarbons, the apphaltens and tar occupe-	FURPOSE: This collection of articles is intended for petrolsum researchers, engineers, and refiners.	Editorial Council: V. P. Aksenov, S. Ye. Anushin, S. I. Balinskly, W. Ta. Volchanskiy, D. I. Gol'tsev, V. S. Grinshteyn (Resp. Secretary), B. V. Dibbnovskly, N. M. Zherban (Chilran), A. P. Kotov, K. I. Logyinov, Yu. M. Ostrovskly, L. M. Orthekhov-skuys, G. V. Prisedskly, V. T. Sklyar (Deputy Chilran), N. Yu. Stasiv, and V. V. T. Saritsyn; Resp. Ed. for this Collection; V. T. Skylar, Candidate of Chemical Sciences; Ed.: A. Novik. Card 1/5	Sponsoring Agencies: UKrSSR Gosudarstvennaya planovnya komissiya Soveta Ministrov; Gosudarstvennyy nauchno-issledovateliskiy i proyektnyy institut ugolinoy, rudnoy, neftyanoy, i gazovoy promyshlennosti "Ukrniiproyekt."	Nauchnyye zapiski, vyp. 1: Dobycha 1 pererabotka nefti (3ci- entific Reports of the State Scientific Resourch and Project Institute for the Coal, Wining, 301, and Gas Industria, No. 1: Extraction and Processing of Petroleum) Kiyev, 1960. 91 p. 1,000 copies printed.	Klyev. Oosudarstvennyy nauchno-issiadovatol'akiy i proyektnyy in- stitut ugol'noy rudnoy, neftyanoy i gazovoy promyshlennoati	PHASE I BOOK EXPLOITATION SOV/4726	

SOKCLONA, I.I.

USSR/Optics - Optical Engineering.

K-4

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7649

Author : Sokolova, T.I.

Inst

Title : Optics of Russian Microscopes and its Development.

Orig Pub : Vopr mikroskysii. M.-L., Mashgez, 1956, 4371

Abstract : Survey of the optical characteristics of microscope

objectives in oculars, produced by the Russian industry.

A large number of tables is given.

Card 1/1

- 16 -

SOKOLOVA, T.I.; PLATONOV, M.P.

Biological microscopes in 1961. TSitologiia 3 no.3:345-357 My-. Je '61. (MIRA 14:6)

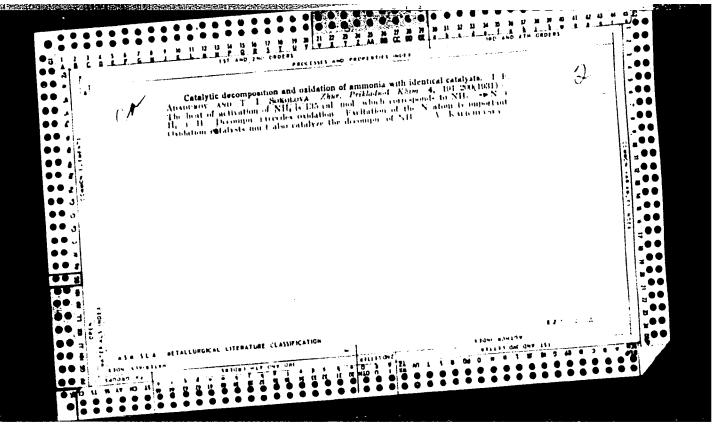
1. Gosudarstvennyy opticheskiy institut, Leningrad. (MICROSCOPE)

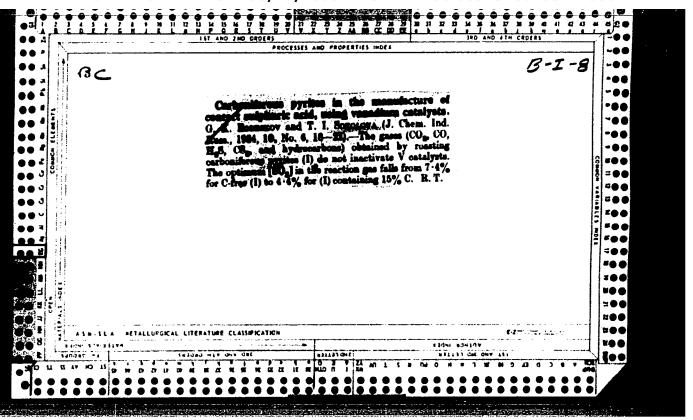
SOKOLOVA, T.I.; TIUNOV, L.A.

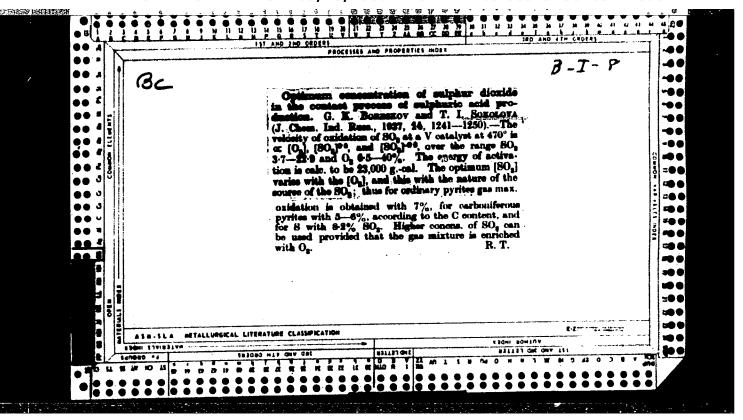
Composition of diesel engine exhaust. Gig. i san. no.10:48
0 '55.

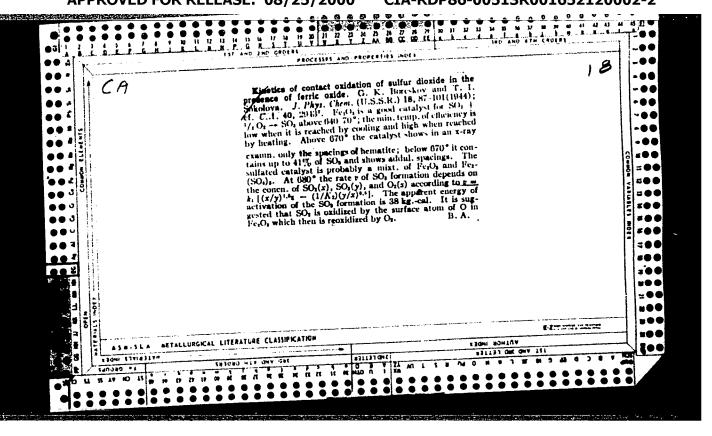
(DIESEL ENGINES)

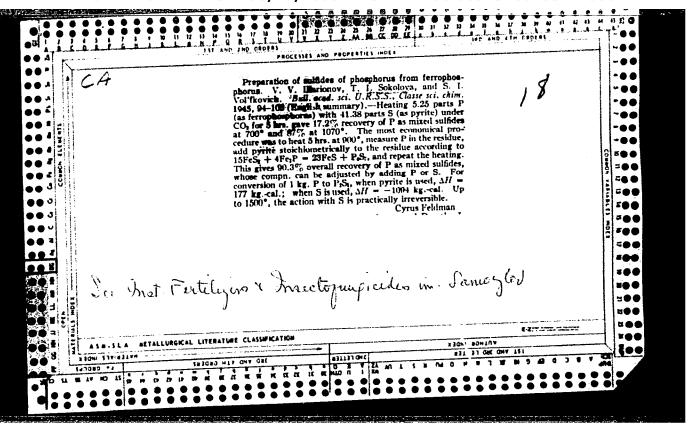
Thiopental acesthesia in carbon tetrachloride	trachloride poisoning. Ferm. 1	
toks. 27 no.1:22-32 Ja-F *64.	(MIRA 17:11)	







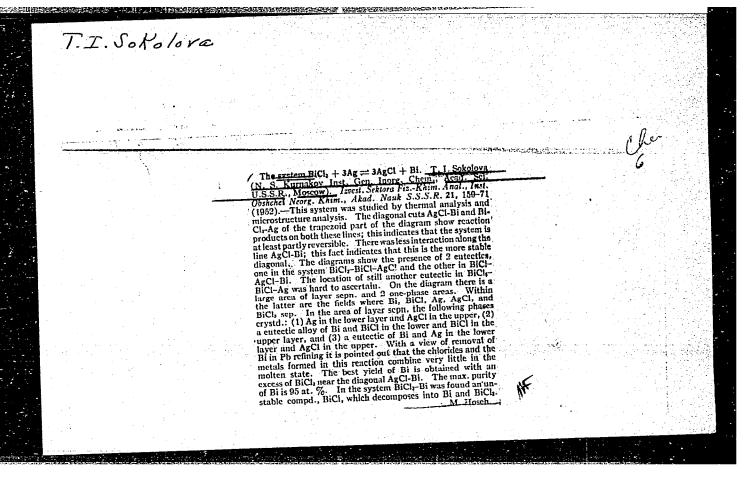




ILLARIONOV, V.V.; SOKOLOVA, T.I.

Study of the decomposition of solid solutions of the system phosphorus - sulfur. Izv.Sekt.fiz.-khim.anal. 21:153-158 '52. (MIRA 6:8)

1. Nauchnyy institut po udobreniyam i insektofungisidam imeni Ya.V.Samoylova. (Solutions, Solid) (Phosphorus) (Sulfur)



232F28

USSR/Chemistry - Pharmaceuticals

Sep 52

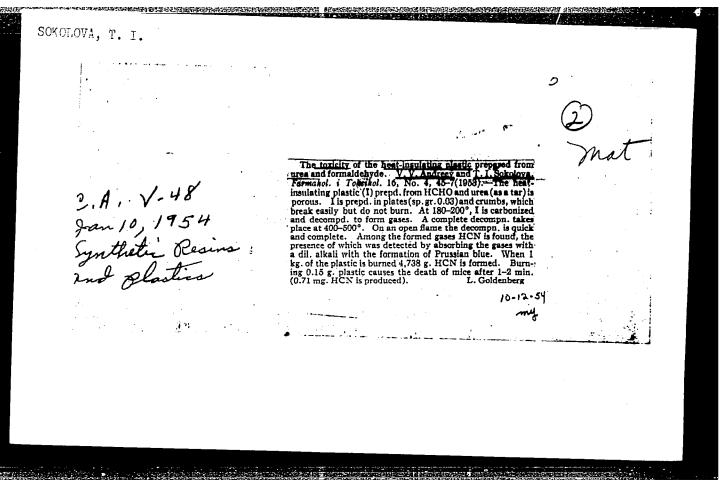
"Synthesis and Study of the Gamma-diethylaminopropyl Ether of 2-Methoxy-6-allylphenol," A. M. Khaletskiy, T. I. Sokolova, Leningrad Chem-Phar Inst

"Zhur Obshch Khim" Vol 22, No 9, pp 1648-1650

The gamma-diethylaminopropyl ether of 2-methoxy-6-allylphenol, as well as its hydrochloride were prepd from 2-methoxy-6-allylphenol and 1-diethylamino-3-chloropropane. A salt was prepd from the above ether and 1,5-disulfonic acid of naphthalene.

232T28

SOKOLOVA, T. I.	USSR/Chemistry - Phosphorus (Contd)  Jun 52  the dependence of the compn of the vapor phase on the compn of the liquid phase can be plotted. It can be considered, with sufficient accuracy, as an isobaric function.	"Separation of a Mixture of POC13 and PC13," T. I. Sokolova, V. V. Illarionov, S. I. Vol'fkovich "Zhur Prik Khim" Vol XXV, No 6, pp 652-657  It is shown that values expressing the dependence of partial pressures on the compn of the PC13-POC13 isotherm of partial pressures of the system, satisfy the Duheme /? / eq and allow calcn of the Duheme-Margulis const. On the basis of the data obtained,	
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ANDREYEV. V.V.; SOKOLOVA, T.I.

Toxicity of heat-insulating plastic with a formaldehyde and urea base.
Farm.i toks. 16 no.4:45-47 Jl-Ag \*54. (MLRA 7:5)

(Hydrogen cyanide-toxicology) (Plastic materials)

#### "APPROVED FOR RELEASE: 08/25/2000

#### CIA-RDP86-00513R001652120002-2

TIUNOV, L.A.; SOKOLOVA, T.I.; PARIBOK, V.P.

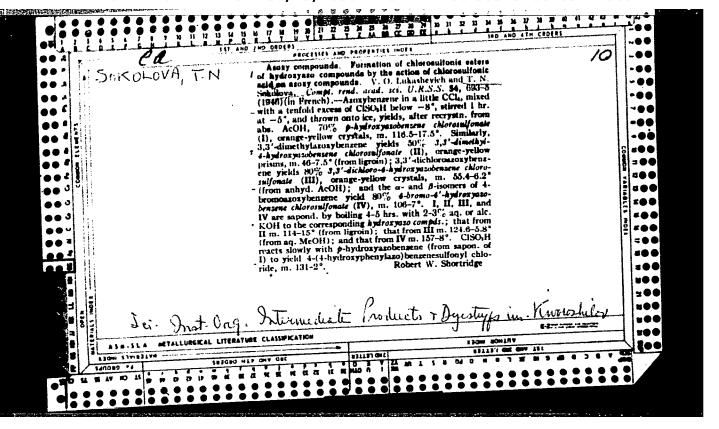
Rate of carbon monoxide excretion from the body [vith summary in gnglish]. Farm. i toks. 20 no.4:76-78 J1-Ag '57. (MIRA 19:11)

(CARBON MONOXIDE, metabolism, excretion rate (Rus))

VOL'FKOVICH, S.I.; SOKOLOVA, T.I.; KULAGINA-SMIRNOVA, Z.G.; KNYAZEVA, K.P.

Carbonization process for production of cryolite from fluorosilicate gases. Zhur. prikl.khim. 31 no.7:969-976 J1 '58. (MIRA 11:9)

(Cryolite) (Fluorosilicate)



SOKOLOVA, T.N., dotsent

Clinical aspects and diagnosis of odontogenic inflammatory processes in the facial vein system. Stomatologia 38 no.3: 50-54 My-Je '59. (MIRA 12:8)

1. Iz stomatologicheskoy kliniki (zav. - prof.I.M.Starobinskiy) I Moskovskogo meditsinskogo instituta imeni I.M.Sechenova. (FACIAL VEIN--DISEASES) (THETH--DISEASES)

GORBUNOVA, Z.V.; SOKOLOVA, T.N.

Syphilitic aneurysm of the aorta with external rupture. Klin.
med. 38 no.6:147-149 Je 160. (MIRA 13:12)
(AORTIC ANEURYSMS) (SYPHILIS)

SCROLOVA, T. N.

PHASE I BOOK EXPLOITATION

sov/6333

#/

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Articles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

PURPOSE: This book is intended for specialists in nuclear instrumentation.

COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

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BOCHKAREV, V.V.; KRONGAUZ, A.N.; SOKOLOVA, T.N.; TIMOFEYEV, L.V.

Determination of the dose of radiation from 8-applicators. Med.rad. 8 no.2:66-73 F'63 (MIRA 16:11)

\*

S/115/63/000/002/008/008 E194/E155

AUTHORS:

Bazhenov, V.A., Bochkarev, V.V., and Sokolova, T.N.

TITLE:

Sorption effects in measuring the radioactivity of

gases

RERIODICAL: Izmeritel'naya tekhnika, no.2, 1963, 57-59

TEXT: In measuring the radioactivity of gases with gas-filled radiation counters, the absorption of  $\beta$ -radiation by the walls and end-effects cause errors which have both been thoroughly discussed, particularly in the non-Soviet literature. However, there are also two sorption effects: some of the material becomes firmly attached two sorption end remains there after the chamber has been nominally to the walls and remains there after the chamber has been nominally swept free; and some becomes temporarily attached to the walls during measurements, so disturbing them, but is afterwards released and swept out, so that the effect cannot be directly observed. Tests were made to determine the relative importances of these effects. A chamber, filled with a gas tagged with a source of effects. A chamber, filled with a gas tagged with a source of  $\beta$ -radiation, has a thin mica window in one end over which is placed an end counter. The chamber also contains a layer of material of such a thickness as to absorb  $\beta$ -particles of maximum energy.

Sorption effects in measuring the ... S/115/63/000/002/008/008 E194/E155

Then if this layer is placed next to the window without breaking vacuum, the counter records only  $\beta\text{-particles}$  from substances attached to the inner surface of the mica and to the surface of the layer. It can be confirmed that radiation originating in the gas filling of the chamber is not being counted by withdrawing the layer and inserting an analogous layer between the mica window and the counter. This gives the background level. After sweeping the chamber, the background contamination due to irreversible sorption can be determined. The actual experimental chamber, made of duralumin, was 178 mm long and 50 mm diameter with a window of A disk with 12 positions could be placed at various distances in front of the window so that the material of the layer could be altered without breaking vacuum or changing the gas. The gas used was CS2 tagged with S35 with a specific activity of 25 milliCurie per gram of liquid carbon disulphide. Surface sorption was studied on the following materials: teflon, mica, special lubricant for CS2, brass, aluminium, methylmethacrylate, polished and unpolished ebonite, rubber mastic and sheet vacuumrubber. The experimental procedures are described in some detail. The materials were found to fall into two groups: the first Card 2/3

Sorption effects in measuring the ...  $\frac{5/115/63/000/002/008/008}{E194/E155}$ 

instantaneously acquire a certain surface activity which then increases exponentially with time (PVC, ebonite, methylmethacrylate) The other group includes the remaining materials except the rubber mastic, in which surface activity instantaneously reaches a certain value which then remains constant. The relative sorptions of samples of the different substances, i.e. the percentage of the radioactivity picked up by 1 cm<sup>2</sup> of the given surface to the activity of 1 cm3 of the chamber was: teflon 5; mica 5; brass 6.5; aluminium foil 6.5; methylmethacrylate 13; PVC 28; polished ebonite 30; rubber mastic 39; rubber 45; unpolished ebonite 65. For materials of the first group the calculation is made for an exposure time of 26 hours. From these data it is possible to assess the sorption of  $\text{CS}_2$  in particular experimental equipment. Thus the activity of CS2 sorbed on the walls of the measuring chamber filled with radioactive carbon disulphide was directly measured. A large proportion of the sorption was reversible and so is not revealed by background measurements after cleaning. The sorption effects are very considerable, and differ There are 4 figures. for different materials.

Card 3/3

BOTVINKINA, L.N.; SELIVERSTOV, V.A.; SOKOLOVA, T.N.; YABLOKOV, V.S.

Some genetic types of Tatarian red beds in the Ural Mountain region of Orenburg Province. Izv. AN SSSR.Ser.geol. 28 no.5:47-66 My '63.

1. Geologicheskiy institut AN SSSR, Moskva.

SOKOLOVA, T.N.; SAKOVA, T.V.; KONSTANTINOV, N.N., doktor biol. nauk, red.[deceased]

[Photoperiodism of plants; bibliography of the literature for 1940-1963] Fotoperiodizm rastenii; bibliograficheskii ukazatel literatury 1940-1963 gg. Moskva, Nauka, 1965. (MIRA 18:10)

1. Moscow. Glavnyy botanicheskiy sad. Nauchnaya biblioteka.

SOKOLOVA, T.N.

Phlebitis às a complication in purulent processes of the maxillofacial region. Trudy 1-go MMI 44:119-126 '65. (MIRA 18:12)

I. 09154-67 EWP (m) ACC NRi AP7002769 SOURCE CODE: UR/0089/66/021/602/0141/0142

AUTHOR: Bazhenov, V. A.; Bochkarev, V. V.; Golubev, Yu. M.; Levin, I. V.; Sokolova, T. N.; Turkin, A. D.

ORG: none

TITLE: Measurements of activity of radioactive gases by means of spherical ionization chamber

SOURCE: Atomnaya energiya, v. 21, no. 2, 1966, 141-142

TOPIC TAGS: ionization chamber, radioactivity measurement

ABSTRACT: A spherical, 24-cm ionization chamber with a copper barrier, filled with air under atmospheric pressure and operating in the -spectrum energy range (0.15 to 2.20 keV) was used for measuring the gas activity in experiments with 133ke, CO2 (labeled with 14C), 131ke, 85kr, and 14Ar gases. The gas activity was determined by means of compensation counters. The order of error was about 2.5%. The results showed that only 14C, 85kr, and 41Ar with simple spectra could be used, while 133ke and 131ke, with their conversion electrons, could not be used. The average current magnitudes k per particle in the chamber were correlated with the theoretical values and the results agreed within 25 to 30%. Orig. art. has: 1 figure and 1 table.

SUB CODE: 18 / SUBM DATE: 19Ju165 / ORIG REF: 002 / OTH REF: 001

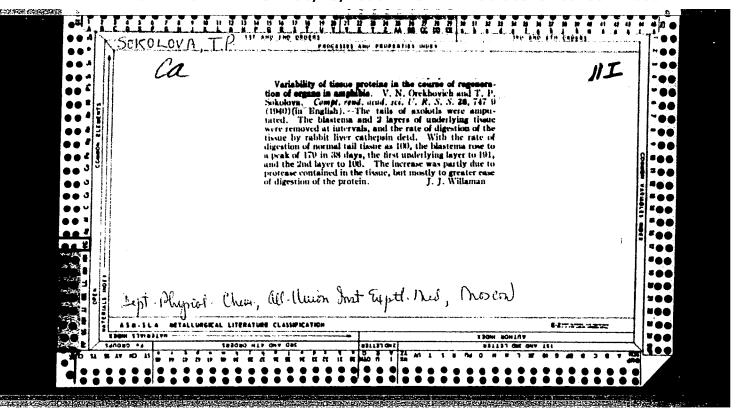
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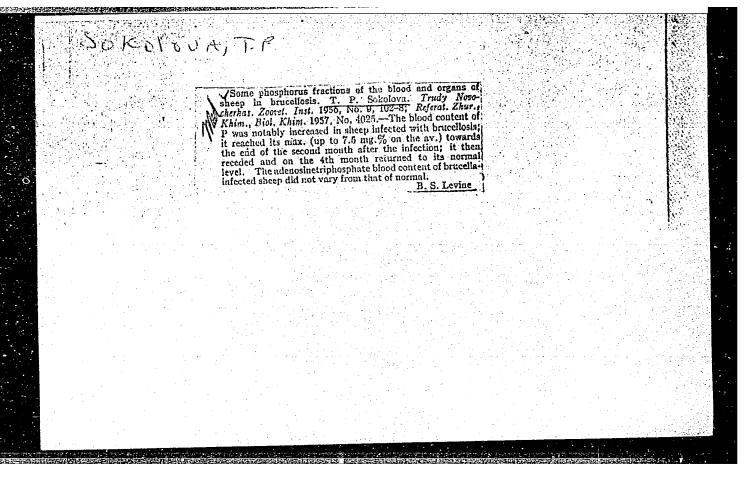
GEL'PERIN, N.I.; PEBALK, V.L.; ROZOV, V.N.; ZAMYSHLYAYEV, V.G.; SOKOLOVA, T.O.; MILOVANOVA, I.B.; YEPISHEVA, M.S.

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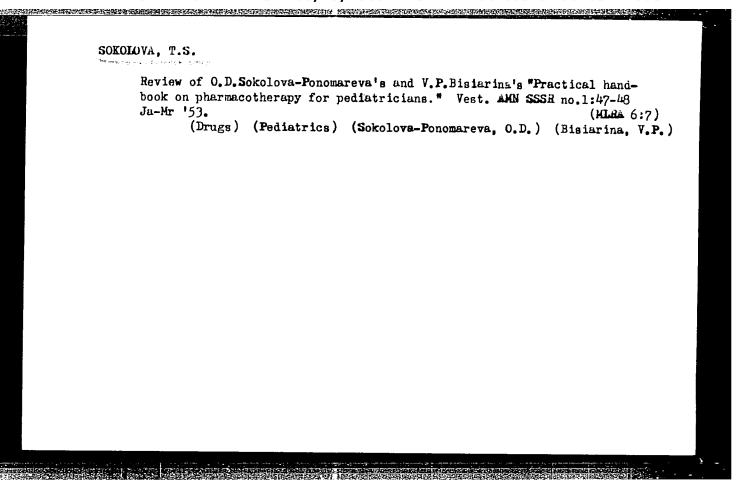
Fractional reextraction of metals from complex metal soaps.
TSvet.met. 38 no.10:41-49 0 '65.

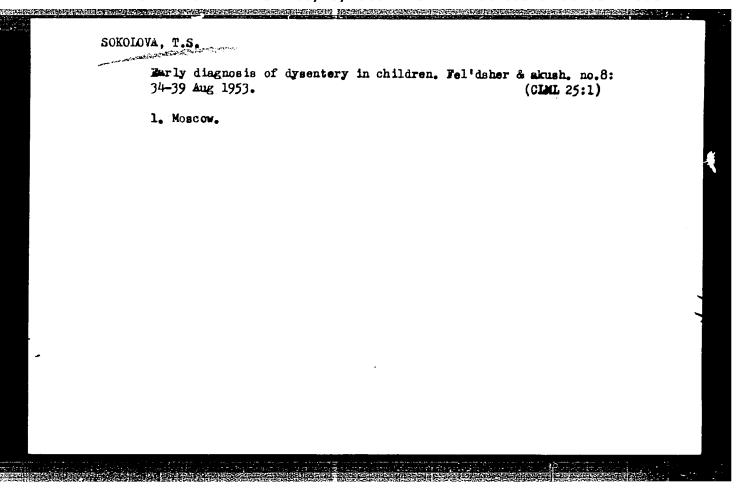
(MIRA 18:12)





... - 908 R OF LETTERY : CHITIVATED FLANTS Grains. Leguadous Grains.
Tropical Caresis.
ALE, COUR. : Fr 7-108 - BOLOGIYA NO. 4, 1959, 150, 156 190 J 1562 S 40.000 : Sokolova, T.P.; Zerif'yan, A.S. INSP Wavochermank Rooveterenery Institutelents
The Lynamics of Accumulation of Nutrients
and ا و در استان النس العام الما المارات 41.815 Various Fertilizers Irrigation. OPIG FUB. : V. sb.: Kulitura kukuruzy v SSSR. M., "Sov. nauka", 1957, 21-24 . Findings of the Novocherhasskaya Zoovetarinary. Institute in atudying the accumulation of watersoluble carbohydrates, starch, niprogenous in the green mass and kernel of : gubstances corn of three sorts: Groznenskiy krus, Novo-ukrainka and Sterling in conditions of irrination and with various fertilizers ( manure 10 tons/ hectare and Po 1 centner/hectare). 1/1. CARD:





SOUTHINA, T. S.

"Disturbances in the Secretory Function of the Puncreus Luring Ling ring and Chronic Lycentery in Children." Cand Red Sci, Acad Red Sci J SR, Roseow, 1954. (RL, No 7, Feb 55)

Su: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions (11)

SOKOLOVA, T.S., kand.med.nauk; LIBERMAN, I.S., red.; BUL'DYAYEV, N.A., tekhn.red.

[How to prevent gastrointestinal diseases in children] Kak predupredit' zheludochno-kishechnye zabolevaniia u detei.
Moskva, Gos.izd-vo med.lit-ry, 1958. 13 p. (MIRA 13:3)
(DIARRHEA)

TSOPPI, Islizaveta Ernestovna; SOKOLOVA, Tat'yana Sergeyevna; POTAFOVA,
I.N., red.; ZAKHAROVA, A.I., tekhn.red.

[Work of the visiting nurse] Rabota patronazhnoi sestry. Moskva,
Oos.izd-vo med.lit-ry, 1959. 91 p. (MIRA 13:5)
(NURSES AND NURSING) (INFANTS--CARE AND HYGIEME)

SOKOLOVA, T.S., kand.med.nauk

Causes of anorexia in young children and measures for their correction [with summary in English]. Pediatriia 37 no.3:16-22 Mr '59. (MIRA 12:')

1. Ia kliniki rannego detskogo vozrasta (zav. - prof. I.V. TSimbler) Instituta pediatrii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponomareva).

(APPETITE DISORDERS, in inf. & child causes of anorexia & correction in young children (Rus))

。 1. 1915年 - 1915年 -

SOKOLOVA, T.S., kand.med.nauk

"Annales paediatriae fenniae." Vol.3, 1957: Anniversary volume in honor of Professor Arvo Ilppo's seventieth birthday. Reviewed by T.S. Sokolova. Pediatriia 37 no.3:78-81 Mr '59. (MIRA 12:4) (PEDIATRICS)

DOMBROVSKAYA, Yu.F., prof. otv. red.; ZVYAGINTSEVA. S.G., prof. red.; SOKOLOVA, T.S., prof., red., GAMBURG, R.L., prof., red.

turrent problems of the physiology and pathology of childhood] Sovremennye problemy fiziologii i patologii detskogo vozrasta. Moskva, Meditsina, 1965. 317 p. (MIRA 18:6)

1. Deystvitel nyy chlen AMN SSSR (for Dombrovskaya).

MEYSEL', M.N.; POMOSHCHNIKOVA, N.A.; SOKOLOVA, T.S.

Radiation registance of cells as affected by blocking intracellular structures. Dokl. AN SSSR 117 no.1:142-145 N-D '57. (MIRA 11:3)

1. Institut mikrobiologii AN SSSR. Predstavleno akademikom V.N. Shaposhnikovym.

(YEAST) (PLANTS, EFFECT OF RADIOACTIVITY ON) (CRIL METABOLISM)

POMOSHCHNIKOVA, N.A.; SOKOLOVA, T.S.

Radiosensitive links in the system of cellular oxidation-reduction enzymes bound with mitochondria. Radiobiologiia 1 no.2:200-205 '61. (MLA 14:7)

1. Institut mikrobiologii AN SSSR, Moskva.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT)

(OXIDATION\_REDUCTION REACTION) (MITOCHONDRIA)

AKKERMAN, V.V.; TUKACHINSKIY, S.Ye.; TEODOROVICH, V.I.; CHERNOMORDIK, B.L.; MOISEYEVA, V.P.; LUJANOVA, I.S.; SHULUTKO, L.S.; KURALEVA, V.V.; SOKOLOVA, T.S.

Some morphological and functional properties of the blood in patients with essential polycythemia. Probl.gemat.i perel. krovi 6 no.4:30-33 Ap '61. (MIRA 14:6)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni nauchnoissledovatel'skogo instituta perelivaniya krovi (dir. - dotsent A.D. Belyakov, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.N. Filatov). (POLYCYTHEMIA) (BLOOD)

TUKACHINSKIY, S.Ye.; KLIMOVA, K.N.; MOISEYEVA, V.P.; SOKOLOVA, T.S.; KUZNETSOVA, V.N.; LOKTEV, A.F.

Mechanism of the formation of C-reactive protein. Probl. gemat. i perel. krovi 9 no.7:14-18 Jl '64.

(MIRA 18:3)

1. Leningradskiy institut perelivaniya krovi (dir. - dotsent A.Ye. Belyakov).

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Diuretic effect of diacarb. Klin.med. 37 no.2:134-138 F 159.

(MIRA 12:3)

1. Iz terspevticheskogo otdeleniya (nauchnyy rukovoditel' - prof.
B.B. Kogan) Klinicheskoy bol'nitsy imeni Medsantrud (glavnyy vrach
A.P. Timofeyeva).

(ACETAZOLAMIDE, ther. use.

(Rus))
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KOGAN, B.B., prof.; SOKOLOVA, T.V. (Moskva)

Therapeutic effectiveness and the mechanism of action of emphylline in cardiac insufficiency. Klin.med. 38 no.10:80-87 0 160. (MIRA 13:11)

1. Iz filiala (zav. - prof. B.B. Kogan) gospital'noy terapevticheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova na baze klinichesko; bol'nitsy imeni Medsantrud. (HEART FAILURE)

(AMINOPHYLLINE)

NIKIFOROV, Yu.N., inzhener, laureat Stalinskoy premii; SOKOLOVA, T.Ye., inzhener.

Gluing metal to wood impregnated with an oil repellent. Trudy TSNIS MPS no.9:175-178 \*53.

(Gluing) (Woodwork)

SOKOLOVA, T.Ys., inzhener.

Gluing wood impregnated with salt solutions. Trudy TSNIS MPS no.9:197-198 '53. (MIRA 8:1)

(Gluing) (Woodwork)

SOKOLOVA, T.Ye., inzh.; TIMOFEYEVA, O.G., inzh.

Strengthening particle boards. Stroi. mat. 5 no.10:35-36 0 '59.

(Wood, Compressed)

CZECHOSLOVAKIA

MITRO, A., MANGELL, S., VIGAS, M., SOKOLOVA, V; Endocrinological Institute, Slovak Academy of Sciences (Indokrinologicky Ustav SAV), Bratislava.

"Study of Morphological Changes in Adrenal Cortex of Rats Subjected to Thyroidectomy Under Influence of an Acute Trauma."

Praque, Geskoslevenska Pysiologie, Vol 15, No 2, Feb 66, p 100

Abstract: 10 days after thyroidectomy, animals subjected to a color acute trauma show changes in adrenal cortex when compared to normal animals; the content of corticosterone in the place is reduced. Changes in the distribution of fat in the acreast glands between the animals that underwent the operation and control animals are described. These differences may be due to the suppression of the adrenocorticotropic function of the animals lobe of the hypophysis due to the changed thyrotropic reaction after thyrodectomy. No references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

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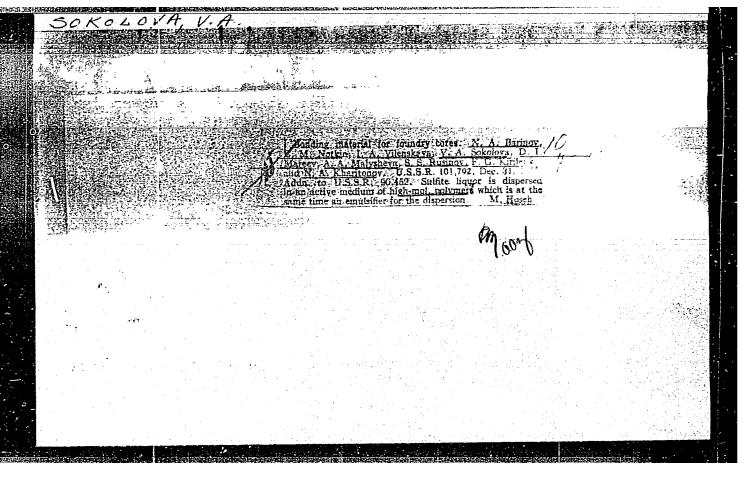
SOKOLOVA, V.A., kandidat tekhnicheskikh nauk; KRYLOV, V.I., inzhener, redaktor; GOLOVIN, S.Ya., inzhener, zav. redaktsiyey; MATVEYEVA, Ya.N., tekhnicheskiy redaktor.

[Oil-less foundry sand binders] Bezmaslianye liteinye krepiteli.

Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954.

89 p. [Microfilm] (MLRA 8:2)

(Sand, Foundry) (Foundry machinery and supplies)

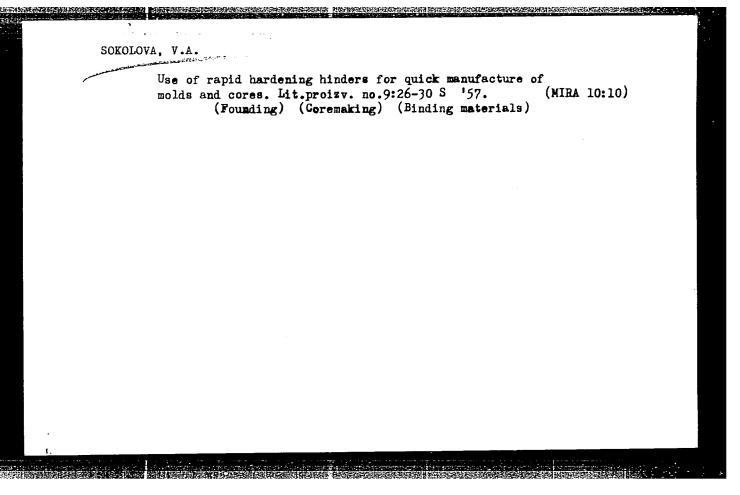


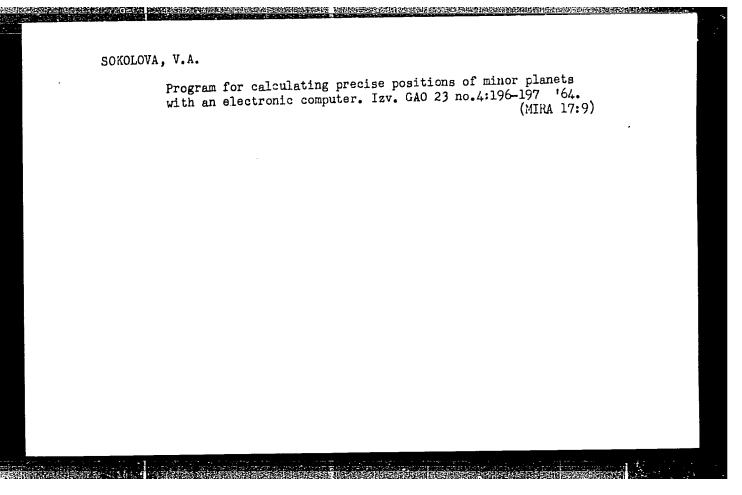
SOKOLOVA, V.A.; ROMANENKO, V.V.

Using wood pitch in foundry practice. Gidroliz.i lesokhim.prom. 9 no.5:10-12 \*56. (MLRA 9:11)

1. Nauchno-issledovatel'skiy institut liteynogo mashinostroyeniya (for Sokolova), TSentral'nyy nauchno-issledovatel'skiy leso-khimicheskiy institut (for Romanenko).

(Wood tar) (Foundry machinery and supplies)





KISELEVA, T.P.; KOROLEVA, L.S.; SOKOLOVA, V.A.

Exact positions of minor planets computed from photographic observations at Cape Observatory. Biul. Inst. teor. astron. 10 no.1:76-80 '65. (MIRA 18:12)

1. Submitted May 9, 1964.

VALOV, P.M.; SOKOLOVA, V.K.; VILENSKIY, A.G.; VAYNSHTEYN, E.Ye.

Unit for measuring Mossbauer spectra. Prib. i tekh.eksp. 10 no.5:161-163 S-0 '65. (MIRA 19:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted August 22, 1964.

NVFNTOR: Gus	kov, A. K.; Bol	bkov, S. S.;	Gribov, A. M	.; Kolchin,	I. K.; Zhake	ov, V. A.;	<b>/</b> .
Kovalev, N.	'kov, A. K.; Bol I.; Lisunova, M.	. B.; Sokolo	va, V. A.; Ku	znetsova, J.	M., Ducaso		
ORG: none			•			Y	
 TITLE: Prep	arative method	for a cataly	st. Class 12	, No. 187738	3		
COURCE: Tzo	hreteniva. DIOM	yshlennyye o	braztsy, tova	rnyye znaki,	no. 21, 19	66 32	
TOPIC TAGS:	acrytonitrile,	chemical sy	nthesis, cata	lyst prepara	ation, Cal	aysu	
						· h	1
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ABSTRACT: A catalyst for A carrier we and heating sequently in	n Author Certif the synthesis th improved str to 1200—1250 a pregnated with	ength and he mixture of bismuth, mol	eat resistance Kaolin and on Lybdenum, and	is prepared alumina. To phosphorus	d by molding he carrier i	opylene. , drying	
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AUTHOR: Markevich, L. A.; Sokolova, Ye. S.  ORG: State Institute of Nitrogen Industry (Gosudarstvennyy institut azotnoy promyshlennosti)  TITLE: Gas-liquid coexistence curve for sulfur hexafluoride near its critical point  SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  Prilozheniye, v. 4, no. 10, 1966, 409-413  TOPIC TAGS: critical point, critical pressure, phase transition, sulfur compound, fluoride, phase diagram  ABSTRACT: In connection with numerous recent attempts to determine the shape of the coexistence curve near the critical point, the authors obtained exact data on the gas-liquid equilibrium of specially purified (99.995% or better) SF6 in the temperature interval Tcr - T \pi 0.001 - 0.800C. The investigations were made with previously-ture interval Tcr - T \pi 0.001 - 0.800C. The investigations were made with previously-ture interval Tcr - T \pi 0.001 - 0.800C. The shoolute temperature, the temperature of the crease the experimental accuracy. The absolute temperature, the temperature of the vanishing of one of the phases, the volume, and the critical molar volume were measured accurate to \( \text{QAQQEG}, \) 0.002C, \( \text{ to.05} \) and \( \text{ to.26}, \) respectively. The value obtained by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical molar of the critical point, the curve	L 109\13-67 EWT(1)/EWT(m)/EWP(t)/ETT IJP(c) JD/JW  ACC MR. AP7000538 SCURCE CODE: UR/0386/66/004/010/0409/0413
ORG: State Institute of Nitrogen Industry (Gosudarstvennyy institut azotnoy prompondennosti)  TITLE: Gas-liquid coexistence curve for sulfur hexafluoride near its critical point  SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  Prilozheniye, v. 4, no. 10, 1966, 409-413  TOPIC TAGS: critical point, critical pressure, phase transition, sulfur compound, fluoride, phase diagram  ABSTRACT: In connection with numerous recent attempts to determine the shape of the coexistence curve near the critical point, the authors obtained exact data on the coexistence curve near the critical point, the authors obtained exact data on the ture interval T <sub>cr</sub> - T ~ 0.001 - 0.800C. The investigations were made with previously- described apparatus (Zh. Fiz. khimii v. 40, 264, 1966), which was improved to in- crease the experimental accuracy. The absolute temperature, the temperature of the vanishing of one of the phases, the volume, and the critical molar volume were mea- sured accurate to 0.002C, 0.002C, t0.05% and t 0.2% respectively. The value obtained by the authors for the critical temperature, pressure, and molarvolume are 45.560  to 0.005, 36.328 t 0.005, and 198.0 t 0.4, respectively. The results show that the co- existence curve of SF <sub>6</sub> is given in the interval T <sub>Cr</sub> - T ~ 0.000 - 0.050C by the equa- tion T - T <sub>Cr</sub> = a(v - v <sub>cr</sub> ). On going beyond 0.050C from the critical point, the curve	Washington V. A. Sokolova, Ye. S.
TITLE: Gas-liquid coexistence curve for sulfur hexafluoride near its critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 10, 1966, 409-413  TOPIC TAGS: critical point, critical pressure, phase transition, sulfur compound, fluoride, phase diagram  ABSTRACT: In connection with numerous recent attempts to determine the shape of the coexistence curve near the critical point, the authors obtained exact data on the gas-liquid equilibrium of specially purified (99.995% or better) SF6 in the temperature interval T <sub>CT</sub> - T ~ 0.001 - 0.800C. The investigations were made with previously-described apparatus (Zh. Fiz. khimii v. 40, 264, 1966), which was improved to increase the experimental accuracy. The absolute temperature, the temperature of the vanishing of one of the phases, the volume, and the critical molar volume were measured accurate to 0.002C, 0.002C, ±0.05% and ±0.2% respectively. The value obtained sured accurate to 0.002C, 0.002C, ±0.05% and ±0.2% respectively. The value obtained by the authors for the critical temperature, pressure, and molarvolume are 45.560  ± 0.005, 38.328 ± 0.005, and 198.0 ± 0.4, respectively. The results show that the co-existence curve of SF6 is given in the interval T <sub>CT</sub> - T ~ 0.000 - 0.050C by the equation T - T <sub>CT</sub> = a(v - v <sub>CT</sub> ). On going beyond 0.050C from the critical point, the curve	ORG: State Institute of Nitrogen Industry (Gosudarstvennyy Institut azotnoy promyan-
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. /Pis'ma v redaktsiyu.  Prilozheniye, v. 4, no. 10, 1966, 409-413  TOPIC TAGS: critical point, critical pressure, phase transition, sulfur compound, fluoride, phase diagram  ABSTRACT: In connection with numerous recent attempts to determine the shape of the coexistence curve near the critical point, the authors obtained exact data on the case-liquid equilibrium of specially purified (99.995% or better) SF <sub>6</sub> in the temperagas-liquid equilibrium of specially purified (99.995% or better) SF <sub>6</sub> in the temperature interval T <sub>Cr</sub> - T ~ 0.001 - 0.800C. The investigations were made with previously-ture interval T <sub>Cr</sub> - T ~ 0.001 - 0.800C. The investigations were made with previously-described apparatus (Zh. Fiz. khimii v. 40, 264, 1966), which was improved to increase the experimental accuracy. The absolute temperature, the temperature of the vanishing of one of the phases, the volume, and the critical molar volume were measured accurate to 0.002C, 0.002C, 10.05% and to 0.2% respectively. The value obtained by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 by the authors for the critical temperature, pressure, and molarvolume are 45.560 existence curve of SF <sub>6</sub> is given in the interval T <sub>Cr</sub> - T ~ 0.000 - 0.050C by the equation T - T <sub>Cr</sub> = a(v - v <sub>Cr</sub> ). On going beyond 0.050C from the critical point, the curve	7
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	Card $1/2$

≈ 0.5C. It is	to form $T - T_{CT} = \beta(v - c)$ concluded that to obtain all point it is necessary inction $(\partial p/\partial v)_T$ , a task in R. Krichevskiy and G. D.	to take into accou	nt higher terms in c +hig investigati	on. The
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KHARITONOV, N.A.; SOKOLOVA, V.A.; NADEZHINA, A.M., tekhn. red.

[Using new oil-free binders for core mixtures in foundry practice] Primenenie novykh bezmaslianykh krepitelei dlia sterzhnevykh smesei v liteinom proizvodstve; po materialam TsNIIL Glavformomaterial MM i P. Leningrad, Leningr. dom tekhniki mashinostroeniia, 1949. 21 p. (MIRA 16:8)

(Binding materials) (Coremaking)

зц988 s/190/62/004/003/008/023 B110/B144

5 3830 AUTHORS:

Razuvayev, G. A., Ryabov, A. V., Zhil'tsov, S. F.,

Sokolova, V. A., Voskoboynik, G. A.

TITLE:

Initiation of vinyl polymerization by organomercury compounds

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 3, 1962, 371-375

TEXT: On the basis of M. M. Koton's investigations (Dokl. AN SSSR, 88, 991, 1953) the effect of oxygen on the polymerization of methyl methacrylate (I) and acrylonitrile is studied at 30-50°C in the presence of dicyclonexyl mercury (II), diisopropyl mercury (III), diethyl mercury (IV) and diphenyl mercury (V), cyclonexyl mercury chloride (VI) and phenyl mercury chloride (VII). The polymerization rate increases with the temperature. The compounds do not dissociate at 30 and 50°C. II and III decompose rapidly at room temperature in the presence of small oxygen amounts. Unstable peroxide compounds which initiate the polymerization, are formed from oxygen and II and III. With stable V and mercury chlorides, oxygen has an inhibiting effect. Its increase first accelerates then decelerates polymerization owing to the decomposition of organometallic Card 1/2

Initiation of vinyl polymerization ...

s/190/62/004/003/008/023 B110/B144

compounds and to the inhibiting effect of oxygen. Increase in oxygen pressure reduces the molecular weight to a constant value. Maximum conversion corresponds to constant minimum molecular weight and probably also to a maximum content of radicals formed.  $r_1 = 0.8$ ,  $r_2 = 0.9$  holds for

6 hrs copolymerization of styrene and I at 50°C initiated by 0.3 mole% of II, and in 14 hrs copolymerization of acrylonitrile and I at 30°C initiated by 0.3 mole% of III. Since these relative activities are similar to those of free radical copolymerization, II and III cause free radical polymerization. In the absence of 02, hydroquinone additions of 50-500 mole, of the initiator reduced the conversion degree of I from 12 to 2-5%, and the molecular weight from 1,500,000 to 300,000. An induction period of 5.5 hrs was found in the polymerization with IV in air. There are 3 figures and 4 tables. The most important reference to English-language publications reads as follows: F. M. Lewis, F. R. Mayo, W. F. Hulse, J. Amer. Chem. Soc., 67, 1701, 1945.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universiteteim. N. I. Lobachevskogo (Scientific Chemical Research Institute of the Gor'kiy State University imeni N. I. Lobachevskiy)

Jard 243

SOKOLOVA, V. A.

"Rapidly Drying Emulsions of Sulfite Liquor as Binding Materials". V Sb.: Formovochnyye Materialy, Mashgiz, M., pp 94-105, 1954.

Sulfite liquor dispersed in a hydrophobic medium is used as a basic material in preparing casting molds and foundry cores. Oxidized petrolatum, heavy fractions of shale gas generator tar. and vat residues from terpentine are used as emulsifiers. (RZhKhim, No 4, 1955)

SO: Sum No 884, 9 Apr 1956

SOKOLOVA, V.A.; ROGOVIN, Z.A.

Effect of the molecular weight and polydispersity of acetylcellulose on the conditions of forming and on the properties of acetate fiber. Khim.volok. no.5:45-47 '59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledova el'skiy institut iskusstvennogo volokna (VMIIV) i Moskovskiy tekstil'nyy institut (MTI).

(Rayon) (Cellulose acetate)

KANTER, D.TS.; USHAKOVA, A.N.; SOKOLOVA, V.A.

Waterless combing oil preparation for treating acetate silk. khim.-volok. no.6:44-46 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna. (Rayon)

SOKOLOVÁ, V. A.

USSR/Chemistry - Propylene Oxide

Jul 53

"Some Physical-Chemical Properties of Propylene Oxide," P. V. Zimakov and V. A. Sokolova

Zhur Fiz Khim, Vol 27, No 7, pp 1079-1080

Remeasured density, refractive index, and viscosity of propylene oxide and detd its limits of miscibility in water with greater accuracy. Found that propylene oxide forms the cryst hydrate C<sub>3</sub>H<sub>6</sub>O·16H<sub>2</sub>O, m p -3<sup>O</sup>, under proper conditions.

271T14

KOVEL'MAN, G.A.; SOKOLOVA, V.A.

Rapid drying of hollow poxelain articles by infrared rays. Trudy
(MIRA 11:5)
(Pottery) (Infrared rays.—Industrial applicat ons)

SOKOLOVA, V.A., aspirant

Repairing malocclusion caused by destruction of the permanent first molar teeth during childhood. Stomatologia 36 no.1:59-64 (MIRA 11:1) Ja-F 157.

1. Iz kafedry chelyustno-litsevoy khirurgii i stomatologii (zav. orof. N.M.Mikhel'son) TSentral'nogo instituta usovershenstvovaniya
vrachey (dir. V.P.Lebedeva) i TSentral'nogo instituta travmatologii
vrachey (dir. - chlen-korrespondent AMN SSSR prof. N.N.Priorov)
(dir. - chlen-korrespondent AMN DEFORMITIES)

s/035/62/000/002/005/052 A001/A101

AUTHOR:

Sokolova, V. A.

TITLE:

Precise positions of asteroids according to photographic observa-

tions at the Cape Observatory

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 2, 1962, 18, 'abstract 2A173 ("Tr. Gl. astron. observ v Pulkove", 1951, v. 73,

147-155, English summary)

The author presents the results of processing  $[\infty, \tilde{)}$  (1950,0), 0-C] of photographic observations of asteroids. The observations were carried out at the Cape of Good Hope Observatory during 1956 - 1957 with a wide-angle camera of the Victoria triple refractor and Ilford Zenith plates (16 x 16 cm, scale 102"354 in 1 mm). The following asteroids were observed: 1, 2, 3, 4, 6, 7, 18, 40. The list of fundamental stars and "relationships" is given.

L. N.

[Abstracter's note: Complete translation]

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FLOROVSKAYA. Vera Hikolayevna. SOKOLOVA, V.A., prof., red.; SHILOVA, K.A., red.; GEORGIYEVA, G.I., tekhn.red.

[Pluorescence hituminological method in petroleum geology]

[Liuminestaentno-bituminologicheskii metod v neftianoi geologii.

[Hoskva] Izd-vo Mosk. univ., 1957. 290 p.

(Petroleum geology)
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STEPANOVA, Ye.A.; SOKOLOVA, V.A.

[Publications of the Institute of Geography of the Academy of Sciences of the U.S.S.R., 1918-1958; a bibliography] Izdaniia Instituta geografii Akademii nauk SSSR, 1918-1958; bibliograficheskii ukazatel. Sost. E.A. Stepanova i V.A. bibliograficheskii ukazatel. Sost. E.A. Stepanova i V.A. Sokolova. Moskva, 1959. 168 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Institut geografii. Biblioteka. (Bibliography--Geography)

Province. Eo	Repeated advance of the steppe in the southern part of Ryazan Province. Ect. zhur. 46 no.4:561-562 Ap 161. (MIRA 14:3)  1. Moskovskiy gosudarstvennyy universitet.  (Krasivka region (Ryazan Province))—Steppe flora)				
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